INDEX TO VOLUME 38

METAL FINISHING, January-December, 1940

ARTICLES

A

A.E.S. Held at Dayton, Twenty-Eighth Annual Convention of the 369
A.E.S. Holds Seventh Annual Meeting, Los Angeles Branch of 269
A.S.T.M., Record Attendance at Atlantic City Meeting 438
Abstracts of Papers Presented at Fall Electrochemical Society Meeting 590
Acetate Solutions, The Electrodeposition of Lead from Lead 533
Alkalis for Metal Cleaning 479
Aluminum Finishes, Developments in ... 4
American Hot-Dip Tinning Practice 201
Analysis of Free Sodium Cyanide in Brass Plating Solutions 260
Ancient Trade Guilds 257
Anodes for Chromium Plating, Lead 313
Anodic Polishing of Metals 22
Automatic Polishing, Some Observations on 638
Automatic Bright Nickel Plating of Automobile Radiator Grilles 197
Automobile Radiator Grilles, Automatic Bright Nickel Plating of 197

B

Band Instruments, Finishing 132
Bells Through the Ages 633
Blue Gelatine-Copper 537
Brass, Joining Thin Tubing to Cast 147
Brass Plating Solutions, Analysis of Free Sodium Cyanide in 260
Brazing and Soldering of Light Metal Castings, Repair Welding 84, 149
Brush Electroplating 383

C

Cadmium Coatings on Steel, Dropping Tests for Measuring the Thickness of.. 91
Chart, A Handy Horizontal Tank 148
Chloride Solutions, The Electrodeposition of Nickel from Nickel 137
Chromium, A Suggested Basis for Specifications of Plated Coatings of Nickel and 27
Chromium Plating, Lead Anodes for 313
Chromium Plating of Motor Cylinders 76
Cleaning, Alkalis for Metal 479
Cleaning and Plating, Tanks for..... 263
Cleaning, Surface Films in Metal 20
Coating, Electroplating Rack 36
Cobalt-Nickel Plating Solutions 318
Compounds in Nickel Plating Solutions, The Influence of Organic 206, 315, 429
Congress and Exposition To Be Held at Cleveland, Ohio, National Metal 528
Convention of the A.E.S. Held at Dayton, Twenty-Eighth Annual 369
Copper, Blue Gelatine- 537
Cost of Polishing, Reducing the 489
Cyanide in Brass Plating Solutions, Analysis of Free Sodium 260
Cyanide Plating Solutions, The Determination of Silver in Silver 377
Cylinders, Chromium Plating of Motor ... 76

D

Decision of Judge Barnes on Suit of United Chromium, Inc. vs. Great Lakes Plating & Japanning Co. 95
Determination of Silver in Silver Cyanide Plating Solutions, The 377
Developments in Aluminum Finishes 4
Developments in Hot Dip Galvanizing ... 384
Digest, Electroplating 33, 216 274, 331, 389, 443, 494, 544, 652
Dropping Tests for Measuring the Thickness of Zinc and Cadmium Coatings on Steel 91
Drying Methods in Electroplating 87

E

Electrochemical Society Meeting, Abstracts of Paper Presented at Fall 590
Electrochemical Society Meeting Held at Wernersvile, Pa., Spring 325
Electrochemical Society to Hold Spring Meeting at Wernersville, Pa., Apr. 24-27 211
Electrodeposited Gold Alloys, An Investigation of 194
Electrodeposition of Lead from Lead Acetate Solutions 533
Electrodeposition of Nickel from Nickel Chloride Solutions 137
Electrodeposition on Plastic Materials 255
Electroforming, Five-Foot Reflectors made by 532
Electrogalvanizing, Progress in 386
Electrolytic Metallizing on Non-Metallic Surfaces 433
Electroplating, Brush 383
Electroplating Digest 33, 216, 274 331, 389, 443, 494, 544, 652
Electroplating, Drying Methods in 87
Electroplating During the Year 1939, A Review of Technical Developments in.. 12
Electroplating, Fundamentals of Science Relating to 495, 545, 595, 653
Electroplating, Health Hazards in 321
Electroplating Products and Processes Developed in 1939, New 3
Electroplating Rack Coating 36
Electroplating, Rectifiers for 379
Electroplating, The Future of 209
Electroplating, The Selenium Rectifier for. 424
Electropolishing 308
Exhibits at Metal Exposition 593
Exposition, Exhibits at Metal 593

F

Films in Metal Cleaning, Surface 20
Filtration, High Speed 203
Finishing Band Instruments 132
Finishing Foremanship, On 483
Five-Foot Reflectors made by Electroforming 532
Foremanship, On Finishing 483
Fundamentals of Science Relating to Electroplating 495, 545, 595, 653
Future of Electroplating, The 209

G

Galvanizers Committee Holds Successful Meeting at Pittsburgh 271
Galvanizing, Developments in Hot Dip 384
Galvanizing, The Reaction of Zinc and Iron in Hot-Dip 486, 530, 585, 632
Gelatine-Copper, Blue 537
Glycerine in Metal Processing 79
Gold Alloys, An Investigation of Electrodeposited 194
Gray Iron Castings, Tinning 641
Grilles, Automatic Bright Nickel Plating of Automobile Radiator 197
Guilds, Ancient Trade 257

H

Handy Horizontal Tank Chart, A 148
Hard Plating of Plastic Molds 579
Hazards in Electroplating, Health 321
Health Hazards in Electroplating 321
High Speed Filtration 203
Hot Dip Galvanizing, Developments in..... 384
Hot-Dip Galvanizing, The Reaction of Zinc and Iron in 486, 530, 585, 632
Hot-Dip Tinning Practice, American 201

I

Influence of Organic Compounds in Nickel Plating Solutions 206, 315, 429
Instruments, Finishing Band 132
Investigation of Electrodeposited Gold Alloys 194
Iron in Hot-Dip Galvanizing, The Reaction of Zinc and 486, 530, 585, 632

J

Joining Thin Tubing to Cast Brass 147

L

Lead Anodes for Chromium Plating 313
Lead from Lead Acetate Solutions, The Electrodeposition of 533
Los Angeles Branch of A.E.S. Holds Seventh Annual Meeting 269

M

Measurements of Silver Alloys, Reflectivity 33
Metal Cleaning, Alkalis for 479
Metal Cleaning, Surface Films in 20
Metal Congress and Exposition To Be Held at Cleveland, Ohio, National ... 528
Metal Exposition, Exhibits at 593
Metal Processing, Glycerine in 79
Metal Spinner Makes Good Beyond Expectations 205
Metallizing on Non-Metallic Surfaces, Electrolytic 433
Metals, Anodic Polishing of 22
Metals Find Many Applications, Prefinished 252
Molds, Hard Plating of Plastic 579
Motor Cylinders, Chromium Plating of..... 76

N

National Metal Congress and Exposition To Be Held at Cleveland, Ohio 528
Nickel and Chromium, A Suggested Basis for Specifications of Plated Coatings of.. 27
Nickel from Nickel Chloride Solutions, The Electrodeposition of 137
Nickel Plating of Automobile Radiator Grilles, Automatic Bright 197
Nickel Plating Solutions, Cobalt- 318
Nickel Plating Solutions, The Influence of Organic Compounds in 206, 315, 429
Non-Metallic Surfaces, Electrolytic Metallizing on 433

O

Organic Compounds in Nickel Plating Solutions, The Influence of 206, 315, 429

P

Papers Presented at Fall Electrochemical Society Meeting, Abstracts of 590
Pickling of Stainless Steel 645
Pickling Racket 541
Plastic Materials, Electrodeposition on 255
Plastic Molds, Hard Plating of 579
Plating, A Study of Rhodium ... 587, 647
Plating of Motor Cylinders, Chromium 76
Plating of Plastic Molds, Hard 579
Plating on Baby Shoes 82
Plating Solutions, Surface Tension of..... 476
Plating, Tanks for Cleaning and 263
Polishing and Its Phases 427
Polishing of Metals, Anodic 22
Polishing, Reducing the Cost of 489
Prefinished Metals Find Many Applications 252
Processes Developed in 1939, New Electroplating Products and 3

Processing, Glycerine in Metal 79
Products and Processes Developed in 1939, New Electroplating 3
Progress in Electrogalvanizing 386

R

Rack Coating, Electroplating 36
Racket, A Pickling 541
Reaction of Zinc and Iron in Hot-Dip Galvanizing, The 486, 530, 585, 632
Record Attendance at Atlantic City Meeting of A.S.T.M. 438
Rectifier for Electroplating, The Selenium 424
Rectifiers for Electroplating 379
Reducing the Cost of Polishing 489
Reflectivity Measurements of Silver Alloys 33
Reflectors Made by Electroforming, Five-Foot 532
Repair Welding, Brazing and Soldering of Light Metal Castings 84, 149
Review of Technical Developments in Electroplating During the Year 1939, A..... 12
Rhodium Plating, A Study of 587, 647

S

Science Relating to Electroplating, Fundamentals of 495, 545, 595, 653
Selenium Rectifier for Electroplating 424
Shoes, Plating on Baby 82
Silver Alloys, Reflectivity Measurements of .. 33
Silver in Silver Cyanide Plating Solutions, The Determination of 377
Society Meeting, Abstracts of Papers Presented at Fall Electrochemical 590
Sodium Cyanide in Brass Plating Solutions, Analysis of Free 260
Soldering of Light Metal Castings, Repair Welding, Brazing and 84, 149
Solutions, Cobalt-Nickel Plating 318
Solutions, Surface Tension of Plating ... 476
Solutions, The Influence of Organic Compounds in Nickel Plating.....206, 315, 429
Some Observations on Automatic Polishing 638
Specifications of Plated Coatings of Nickel and Chromium, A Suggested Basis for.. 27
Spinner Makes Good Beyond Expectations, Metal 205
Spring Electrochemical Society Meeting Held at Wernersville, Pa. 325
Stainless Steel, Pickling of 645
Steel, Dropping Tests for Measuring the Thickness of Zinc and Cadmium Coatings on 91
Study of Rhodium Plating, A 587, 647
Suggested Basis for Specifications of Plated Coatings of Nickel and Chromium 27
Suit of United Chromium, Inc., Decision of Judge Barnes on 95
Surface Films in Metal Cleaning 20
Surface Tension of Plating Solutions 476

T

Tank Chart, A Handy Horizontal 148
Tanks for Cleaning and Plating 263
Technical Developments in Electroplating During the Year 1939, A Review of.. 12
Tension of Plating Solutions, Surface..... 476
Tests for Measuring the Thickness of Zinc and Cadmium Coatings on Steel, Dropping 91
Thickness of Zinc and Cadmium Coatings on Steel, Dropping Tests for Measuring the 91
Tinning Practice, American Hot-Dip 201
Tubing to Cast Brass, Joining Thin 147
Twenty-Eighth Annual Convention of the A.E.S. Held at Dayton 369
Tinning Gray Iron Castings 641

U

United Chromium, Inc., Decision of Judge Barnes on Suit of 95

W

Welding, Brazing and Soldering of Light Metal Castings, Repair 84, 149

Z

Zinc and Cadmium Coatings on Steel, Dropping Tests for Measuring the Thickness of 91
Zinc and Iron in Hot-Dip Galvanizing, The Reaction of 486, 530, 585, 632

AUTHORS

B

Bablik, Dr. Ing. Heinz. Reaction of Zinc and Iron in Hot-Dip Galvanizing 486, 530, 585, 632
Bancroft, Wilder D. Blue Gelatine-Copper .. 537
Bayard, James J. Electrodeposition on Plastic Materials 255
Brenner, Dr. Abner. Dropping Tests for Measuring the Thickness of Zinc and Cadmium Coatings on Steel 91
Briggs, T. R. Blue Gelatine-Copper 537

C

Carey, J. W. Electrodeposition of Nickel from Nickel Chloride Solutions 137
Cleveland, Dr. T. K. Alkalis for Metal Cleaning 479

D

Diggin, Myron B. Electroplating Rack Coating 36

E

Eckhardt, Ray. Lead Anodes for Chromium Plating 313
Eichrtaedt, Theodore. A Pickling Racket .. 541

F

Fairlie, W. A. Brush Electroplating ... 383
Fink, Dr. Colin G. The Future of Electroplating 209

G

Gillies, Daniel M. Determination of Silver in Silver Cyanide Plating Solutions 377
Green, Robert J. High Speed Filtration... 203

H

Hartshorn, Jr., Derick S. Surface Tension of Plating Solutions 476
Heiman, Samuel. Analysis of Free Sodium Cyanide in Brass Plating Solutions 260
Helmle, Clarence C. Rectifiers for Electroplating 379
Helmle, Clarence C. Tanks for Cleaning and Plating 263
Herr, Fred A. Los Angeles Branch of A.E.S. Holds Seventh Annual Meeting.. 269
Herschlag, V. E. An Investigation of Electrodeposited Gold Alloys 194
Hothersall, Arthur W. A Suggested Basis for Specifications of Plated Coatings of Nickel and Chromium 27

I

Imhoff, Wallace G. Tinning Gray Iron Castings 641
Imhoff, Wallace G. American Hot-Dip Tinning Practice 201

K

Kramarcik, Paul C. On Finishing Foremanship 483
Kushner, Joseph B. A Review of Technical Developments in Electroplating During the Year 1939 12
Kushner, Joseph B. The Selenium Rectifier for Electroplating 424

L

Lancaster, H. W. Prefinished Metals Find Many Applications 252
Leffingwell, Georgia. Glycerine in Metal Processing 79
Lesser, Milton A. Glycerine in Metal Processing 79
Little, J. D. Ancient Trade Guilds 257
Little, Joseph Danforth. Bells Through the Ages 633
Logozzo, Arthur W. Hard Plating of Plastic Molds 579
LoPresti, Philip J. Drying Methods in Electroplating 87
Loutrel, Jr., Louis F. Pickling of Stainless Steel 645

M

McNabb, Wallace M. Analysis of Free Sodium Cyanide in Brass Plating Solutions 260
McNabb, Wallace M. Determination of Silver in Silver Cyanide Plating Solutions 377
Mathers, Frank C. The Electrodeposition of Lead from Lead Acetate Solutions .. 533
Meyer, Dr. Walter R. New Electroplating Products and Processes Developed in 1939 3

P

Pettit, Ralph E. Developments in Aluminum Finishes 4
Power, Henry R. Reducing the Cost of Polishing 489

R

Raub, Ernst. The Influence of Organic Compounds in Nickel Plating Solutions 206, 315, 429
Re, Andrew V. Plating on Baby Shoes... 82
Re, Andrew V. Some Observations on Automatic Polishing 638
Rinker, Edwin C. Surface Films in Metal Cleaning 20
Russell, J. P. Health Hazards in Electroplating 321

S

Savage, Frank K. Finishing Band Instruments 132
Schaefer, Carl. Anodic Polishing of Metals 22
Schaphorst, W. F. A Handy Horizontal Tank Chart 148
Schore, Elias. Electrolytic Metallizing on Non-Metallic Surfaces 433
Schueler, J. L. Developments in Hot Dip Galvanizing 384
Schwartzkopf, Joe B. The Electrodeposition of Lead from Lead Acetate Solutions.... 533
Singmaster, J. A. Progress in Electrogalvanizing 386
Spencer, A. G. Automatic Bright Nickel Plating of Automobile Radiator Grilles.. 197
Sterling, Joseph G. Polishing and Its Phases 427

T

Thews, Edmund R. Repair Welding, Brazing and Soldering of Light Metal Castings 84, 149
Tour, Sam. Electropolishing 308

V

Van der Horst, Hendrik, Chromium Plating of Motor Cylinders 76

W

Weisberg, Louis. Cobalt-Nickel Plating Solutions 318
Weisberg, Mark. A Study of Rhodium Plating 587, 647
Wesley, Dr. W. A. The Electrodeposition of Nickel from Nickel Chloride Solutions 137
Wittum, Max. The Influence of Organic Compounds in Nickel Plating Solutions 206, 315, 429

Y

Young, Dr. C. B. F. An Investigation of Electrodeposited Gold Alloys 194

SHOP PROBLEMS

Aluminum, Brown Color on 388
Aluminum Finish, Hand Forged 330
Analysis of Boric Acid 32
Analytical Equations 31
Antimony Alloy, Silver Oxidized Finish on Tin 215
Atmosphere, Exposure of Chromium Plating to Severe 96

Bank Bronze Finish, Oiled 214
Barrel Black Nickel Plating 214
Black Nickel Plating, Barrel 214
Blade, Finish on Razor 493
Blades, Steel Knife 542
Boric Acid, Analysis of 32
Bowls, Polishing Hollow 214
Brass Analysis, Iron in 215
Brass, Hot Tinning of 543
Brass, Matte Dipping of 272
Brass Molding, Gold Plating 329
Brass Plating, Bright 272
Brass Plating of Cast Iron Lamp Bases.. 214
Breaking of Plated Springs 542
Bright Brass Plating 272
Bright Dipping Stainless Steel 651
Bright Burnishing 32
Brighter Nickel Solution 388
Britannia Metal, Gold Plating on..... 273
Bronze Finish, Oiled Bank Bronze 214
Brown Color on Aluminum 388
Buffer Curve for Copper Plating Solution 97
Burnishing, Bright 32
Burnishing Jewelry 442

Cast Iron Lamp Bases, Brass Plating of ... 214
Chromium Plating to Severe Atmosphere, Exposure of 96
Cleaning the Hot Tinning Bath 96
Copper Plating Solution, Buffer Curve for .. 97
Copper Plating Solutions, Purification of Nickel and 442
Copper Solution, Low Efficiency 442
Cracking and Peeling of Plated Case-Hardened Steel 387
Crystals from a Silver Solution 651
Curve for Copper Plating Solution, Buffer 97
Cyanide, Preparing Sodium Gold 154

Derivation, Factor 492
Detinning 594
Dials, Finishing Watch 651

Electrodeposits, Testing Strength of..... 154
Equations, Analytical 31
Equipment for Pickling Gold Filled Alloys 651
Exposure of Chromium Plating to Severe Atmosphere 96

Factor Derivation 492
Faulty Nickel 493
Finish on Razor Blade 493
Finishing Small Jewelry 329
Finishing Watch Dials 651
Fire Oxide from Silver, Removing 492
Forged Aluminum Finish, Hand 330

Glue for Polishing Wheels, Use of..... 31
Gold Cyanide, Preparing Sodium 154
Gold Filled Alloys, Equipment for Pickling 651
Gold Finish, Rogers 272
Gold, Lacquering 492
Gold Plating Brass Molding 329
Gold Plating on Britannia Metal..... 273
Gold, Russian 543
Gold Solution, Stored 493

Hand Forged Aluminum Finish 330
Hot Tinning Bath, Cleaning the..... 96
Hot Tinning of Brass 543

Immersion Silvering 32
Iron in Brass Analysis 215
Iron Lamp Bases, Brass Plating of Cast.. 214
Iron Plating Solution 388

Jewelry, Burnishing 442
Jewelry, Finishing Small 329

Lacquering Gold 492
Lamp Bases, Brass Plating of Cast Iron.. 214
Low Efficiency Copper Solution 442

Matte Dipping of Brass 272
Molding, Gold Plating Brass 329

Nickel and Copper Plating Solutions, Purification of 442
Nickel, Faulty 493
Nickel Plating, Barrel Black 214
Nickel Solution, Brighter 388
Nickel Solution, Peeling and Pitting in... 215

Oiled Bank Bronze Finish 214
Oxide from Silver, Removing Fire 492

Palladium Plating 97
Parts, Storage of Clean 32
Peeling and Pitting in Nickel Solution ... 215
Pins, Plating Safety 542
Pins, Porosity of 387
Pins, Rusting of Safety 154
Pitting in Nickel Solution, Peeling and .. 215
Plated Springs, Breaking of 542
Plating Brass Molding, Gold 329
Plating Safety Pins 542
Plating, Silver 330
Plating Solution, Iron 388
Polishing Hollow Bowls 214
Polishing Wheels, The Use of Glue for.... 31
Porosity of Pins 387
Preparing Sodium Gold Cyanide 154
Purification of Nickel and Copper Plating Solutions 442

Removing Fire Oxide from Silver 492
Removing Surplus Tin 493
Rogers Gold Finish 272
Russian Gold 543
Rusting of Safety Pins 154

Silver Oxidized Finish on Tin-Antimony Alloy 215
Silver Plating 330
Silver, Removing Fire Oxide from 492
Silver Solution, Crystals from a 651
Silvering, Immersion 32
Sodium Gold Cyanide, Preparing 154
Solution, Brighter Nickel 388
Solution, Iron Plating 388
Solution, Low Efficiency Copper 442
Solution, Stored Gold 493
Solutions, Purification of Nickel and Copper Plating 442
Spotty Hot Tinned Wire 273
Springs, Breaking of Plated 542
Stainless Steel, Bright Dipping 651
Steel, Cracking and Peeling of Plated Case-Hardened Steel 387
Steel Knife Blades 542
Storage of Clean Parts 32
Stored Gold Solution 493
Strength of Electrodeposits, Testing 154

Testing Strength of Electrodeposits 154
Tin-Antimony Alloy, Silver Oxidized Finish on 215
Tin, Removing Surplus 493
Tinned Wire, Spotty Hot 273
Tinning Bath, Cleaning the Hot 96
Tinning of Brass, Hot 543

Wheels, The Use of Glue for Polishing.. 31
Wire, Spotty Hot Tinned 273

ORGANIC FINISHING SECTION ARTICLES

A

Air Cleaners for Clean Spraying of Organic Finishing Materials 297
Air Filters for Organic Finishing 467
Allis-Chalmers, Finishing System at 359

B

Baking for Organic Finishing, Radiant Energy Drying and 294
Booth Design, Exhaust 62
Brushes, Care of 357

C

Cabinets and Allied Steel Office Units, Finishing Filing 622, 682
Calculating the Solids Content of Reduced Organic Finishing Materials 176
Calculation of Finishing Material Costs 238
Care of Brushes 357
Chart, Drum Volume 564
Chart, Non-Volatile Solids 361
Cleaners for Clean Spraying of Organic Finishing Materials, Air 297
Color Control, Paint 172
Color Preferences for Cars Shown Throughout U. S., Wide Variations in 244
Conception of Petroleum Solvents and Thinners, New 354, 410
Consistency of Organic Finishing Materials 679
Containers, Finishing Metal 619
Control, Paint Color 172
Controlled Thickness, Paint Films of 123
Costs, Calculations of Finishing Material.. 238

D

Degreaser Installations in Southern California, New 465
Degreasers, Safe Operation of 625
Detecting Moisture with Meters 178
Detective Work on Metal Finishes 304
Developments in Lacquers and Enamels for Industrial Finishing During 1939 61
Developments in Wrinkle Finishes Revealed at Technical Production Conference, New 416
Digest, Organic Finishing 186, 302, 363, 419, 469, 523, 573, 684
Drum Volume Chart 564
Drying and Baking for Organic Finishing, Radiant Energy 294

E

Enamels for Industrial Finishing, During 1939, Developments in Lacquers and... 61
Enamels, Putting the Heat on 565
Energy Drying and Baking for Organic Finishing, Radiant 294
Evaluation of Nitrocellulose Lacquer Solvents 186
Exhaust Booth Design 62

F

Films of Controlled Thickness, Paint 123
Filters for Organic Finishing, Air 467
Finishes, Detective Work on Metal 304
Finishes Revealed at Technical Production Conference, New Developments in Wrinkle 416
Finishing Department, A Modernized..... 125
Finishing Filing Cabinets and Allied Steel Office Units 622, 682
Finishing Material Costs, Calculation of... 238
Finishing Materials, Calculating the Solids Content of Reduced Organic 176
Finishing Materials, Consistency of Organic 679
Finishing Materials, Hints on Handling 421, 464, 681
Finishing Materials, Storing, Mixing and Reducing of Organic 121
Finishing Metal Containers 619
Finishing of Home Laundry Equipment, Organic 118
Finishing, Problems of Metal Specialties ... 519
Finishing System at Allis-Chalmers 359
Finishing, Technical Developments of 1939 in Supplies and Equipment for 58

H

Helpful Oven Suggestions 179
High Temperature Lacquering 414
Hints on Handling Finishing Materials 421, 464, 681

J

Japanning Department, Useful Pointers for the 69

L

Lacquering, High Temperature 414
Lacquers and Enamels for Industrial Finishing During 1939, Developments in... 61
Laundry Equipment, Organic Finishing of Home 118

M

Metal Containers, Finishing 619
Metal Finishes, Detective Work on 304
Metal Specialties Finishing Problems of.... 519
Metallic Powders, Mixing Vehicles and ... 618
Meters, Detecting Moisture with 178
Mixing and Reducing of Organic Finishing Materials 121
Mixing Vehicles and Metallic Powders 618
Modernized Finishing Department, A 125
Moisture Peeling of House Paints ... 240, 300
Moisture with Meters, Detecting 178
Mold-Resistance, Test for Paint 676

N

Non-Volatile Solids Chart 361

O

Operator, Training the Spray Finishing .. 677
Organic Finishing Digest .. 186, 302, 362, 419, 469, 523, 573, 684
Organic Finishing Materials, Air Cleaners for Clean Spraying of 297
Organic Finishing Materials, Calculating the Solids Content of Reduced 176
Organic Finishing Materials, Precautions in the Use of 462
Organic Finishing Materials, Storing, Mixing and Reducing of 121
Organic Finishing of Home Laundry Equipment 118
Organic Finishing, Technical Developments of 1939 in Supplies and Equipment for.. 58
Oven Suggestions, Helpful 179

P

Paint Color Control 172
Paint Films of Controlled Thickness 123
Painting, Surface Treatment of Steel Prior to 514, 569, 620
Paints, Moisture Peeling of House ..240, 300
Peeling of House Paints, Moisture .. 240, 300
Petroleum Solvents and Thinners, New Conception of 354, 410
Powders, Mixing Vehicles and Metallic 618
Precautions in the Use of Organic Finishing Materials 462
Problems of Metal Specialties Finishing .. 519
Processes, Rust Proofing 64
Putting the Heat on White Enamels 565

Q

Questions on Organic Finishing 473

R

Radiant Energy Drying and Baking for Organic Finishing 294
Reducing of Organic Finishing Materials, Storing, Mixing and 121
Rust Proofing Processes 64

S

Safe Operation of Degreasers 625
Solids Chart, Non-Volatile 361
Solids Content of Reduced Organic Finishing Materials, Calculating the 176
Solvents and Thinners, New Conception of Petroleum 354, 410
Spraying Equipment Finds Many Uses ... 360
Spraying of Organic Finishing Materials, Air Cleaners for Clean 297
Steel Prior to Painting, Surface Treatment of 514, 569, 620
Storing, Mixing and Reducing of Organic Finishing Materials 121
Surface Treatment of Steel Prior to Painting 514, 569, 620

T

Technical Developments of 1939 in Supplies and Equipment for Organic Finishing .. 58
Temperature Lacquering, High 414
Test for Paint Mold-Resistance 676
Thickness, Paint Films of Controlled 123
Thinners, New Conception of Petroleum Solvents and 354, 410
Training the Spray Finishing Operator ... 677
Treatment of Steel Prior to Painting, Surface 514, 569, 620

U

Useful Pointers for the Japanning Department 69

V

Vehicles and Metallic Powders, Fixing ... 618
Volume Chart, Drum 564

W

Wide Variations in Color Preference for Cars Shown Thruout U. S. 244
Wrinkle Finishes Revealed at Technical Production Conference, New Developments in 416

AUTHORS

Anderson, F. R. Finishing System at Allis-Chalmers 359
Arlt, H. G. Paint Films of Controlled Thickness 123

Baldwin, W. P. Training the Spray Finishing Operator 677
Bruner, W. M. Evaluation of Nitrocellulose Lacquer 186

Cleveland, Carleton. Finishing Metal Containers 619
Cleveland, Carleton. Rust Proofing Processes 64

Darsey, V. M. Detective Work on Metal Finishes 304
Davis, R. B. Moisture Peeling of House Paints 240, 300

Faulhaber, Frank V. Finishing Filing Cabinets and Allied Steel Office Units 622, 682
Faulhaber, Frank V. Helpful Oven Suggestions 179
Faulhaber, Frank V. Problems of Metal Specialties Finishing 519
Faulhaber, Frank V. Useful Pointers for the Japanning Department 69

Hatch, Theodore. Exhaust Booth Design.. 62
Herr, Fred. New Degreaser Installations in Southern California 465

Iliff, J W. Moisture Peeling of House Paints 240, 300

Johnston, L. F. Air Cleaners for Clean Spraying of Organic Finishing Materials 297

Kline, C. M. Airplane Dopes 186
Klinkenstein, G. Developments in Lacquers & Enamels for Industrial Finishing During 1939 61

Lawrence, James R. Consistency of Organic Finishing Materials 679

McPherson, Robert R. Test for Paint Mold-Resistance 676
Meyer, Dr. Walter R. Technical Developments of 1939 in Supplies and Equipment for Organic Finishing 58

Northrup, Robert B. Exhaust Booth Design 62

Partansky, Alex M. Test for Paint Mold-Resistance 676
Peabody, Raymond F. Precautions in the Use of Organic Finishing Materials..... 462
Pollard, Rolla E. Surface Treatment of Steel Prior to Painting 514, 569, 620
Porter, Wilbur C. Surface Treatment of Steel Prior to Painting 514, 569, 620

Reinhart, F. W. Airplane Dopes 186

Sanderson, John McE. Putting the Heat on White Enamels 565
Sheane, W. G. Calculating the Solids Content of Reduced Organic Finishing Materials 176
Sheane, W. G. Calculation of Finishing Material Costs 238
Sheane, W. G. Finishing of Home Laundry Equipment 118
Shelton, J. G. Care of Brushes 357
Stedtefeld, D. J. High Temperature Lacquering 414
Stedtefeld, D. J. Radiant Energy Drying and Baking for Organic Finishing 294
Stephenson, E. M. Hints on Handling Finishing Materials 421, 464, 681

Toby, Jr., Edward M. New Conception of Petroleum Solvents and Thinners... 354, 410

Ware, V. W. Evaluation of Nitrocellulose Lacquer Solvents 186
Williams, John R. Modernized Finishing Department 125

Zahn, E. A. Paint Color Control 172

SHOP PROBLEMS

Alcohols 572
Aluminum Finish 681

Blushing of Lacquers 473

Enamel, Skinning of 572

Finishes, Sagging of 625
Finishing Mallets 625
Flow 626

Galvanized Iron, Treatment of 572

Iron, Treatment of Galvanized 572

Lacquers, Blushing of 473
Lifting of Finish 681

Mallets, Finishing 625

Sagging of Finishes 625
Skinning of Enamel 572
Solvents 626

Treatment of Galvanized Iron 572

SOLVENTS IN INDUSTRY

Acetone 127

Diacetone Alcohol 183

Ethyl Acetate 245
Ethylene Dichloride 685

Isopropyl Acetate 627

Methyl Ethyl Ketone 470

Normal Butyl Acetate 418
Normal Butyl Alcohol (Butanol) 71